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PTO/SB/05 REV 1 (12/97)

Approved for use through 09/30/2000. omb 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

SJO919990114US3

First Inventor or Application Identifier

Gill

Title

METHOD OF MAKING A SPIN VALVE SENSOR OF A READ HEAD
WITH A TRIPLE ANTIPARALLEL COUPLED FREE LAYER
STRUCTURE

Express Mail Label No.

EL 749517885 US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:

Mail Stop: Patent Application
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

1. ☒ Fee Transmittal Form
(Submit an original, and a duplicate for fee processing)

2. ☒ Specification [Total Pages 33]
(preferred arrangement set forth below)
- Descriptive title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention

- Brief Description of the Drawings (if filed)

- Detailed Description
- Claim(s)
- Abstract of the Disclosure

3. ☒ Drawing(s) (35 USC 113) [Total Sheets 8]

4. ☒ Oath or Declaration [Total Pages 2]
a. ☐ Newly executed (original or copy)
b. ☒ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 17 completed)

i. ☐ DELETION OF INVENTOR(S)

Signed statement attached in the prior application, see
37 CFR 1.63(d)(2) and 1.33(b).

5. ☒ Incorporation by Reference (useable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy
of the oath or declaration is supplied under Box 4b, is considered
as being part of the disclosure of the accompanying application
and is hereby incorporated by reference therein.

6. ☐ Microfiche Computer Program (Appendix)

7. ☐ Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)

- a. ☐ Computer Readable Copy
b. ☐ Paper Copy (identical to computer copy)
c. ☐ Statement Verifying identity

ACCOMPANYING APPLICATION PARTS

8. ☐ Assignment Papers (cover sheet & document(s))
9. ☐ 37 CFR 3.73(b) Statement
(when there is an assignee) ☐ Power of Attorney
10. ☐ English Translation Document (if applicable)
11. ☒ Information Disclosure Statements ☐ Copies of
(IDS) w/PTO-1449 & PTO-892 IDS Citations
12. ☒ Preliminary Amendment
13. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
14. ☐ Small Entity ☐ Statement filed in prior application,
Statement(s) Status still proper and desired
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☒ Other: Express Mail Certification

17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:

☐ Continuation ☒ Divisional ☐ Continuation-in-part (CIP) of prior application No.: 09/872,814
Prior application information: Examiner Phan, Thiem D. Group/Art Unit 3729

18. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label or ☒ Correspondence address below

(Insert Customer No. or Attach bar code label here)

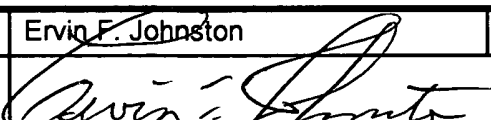
ADDRESS

International Business Machines Corporation
IP Law L2PA/010
5600 Cottle Road
San Jose, California 95193

Telephone: 619-334-5883 (Ervin F. Johnston) FAX: 619-448-1904

COUNTRY

USA

Name (Print/Type)	Ervin F. Johnston	Registration No. (Attorney/Agent)	20,190
Signature		Date	September // 2003

17991 U.S. PTO
09/11/03

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FEE TRANSMITTAL

Patent fees are subject to annual revision on October 1.

These are the fees effective November 10, 1998.

Small Entity payments must be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12

See 37 C.F.R. §§ 1.27 and 1.28

Complete If Known

Application Number (unknown)

Filing Date (herewith)

First Named Inventor H. Gill

Examiner Name (unknown)

Group / Art Unit (unknown)

TOTAL AMOUNT OF PAYMENT (\$ 750.00)

Attorney Docket No. SJO919990114US3

METHOD OF PAYMENT (check one)

FEE CALCULATION (continued)

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:

Deposit Account Number 09-0442
Deposit Account Name International Business Machines Corp.

☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17
☐ Charge the Issue Fee Set in 37 CFR 1.18 at the Mailing of the Notice of Allowance. 37 CFR 1.311(b)

2. ☐ Payment Enclosed:
☐ Check ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
101 750	201 375	Utility filing fee	
106 330	206 165	Design filing fee	
107 520	207 260	Plant filing fee	
108 750	208 375	Reissue filing fee	
114 160	214 80	Provisional filing fee	

SUBTOTAL (1) (\$)

2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	20**	x 18	
Multiple Dependent Claims	5**	x 84	

** or number previously paid, if greater; For Reissues, see below

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
103 18	203 9	Claims in excess of 20	
102 84	202 42	Independent claims in excess of 3	
104 280	204 140	Multiple dependent claim	
109 80	209 40	** Reissue independent claims over original patent	
110 18	210 9	** Reissue claims in excess of 20 and over original patent	

SUBTOTAL (2) (\$)

3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
105 130	205 65	Surcharge - late filing fee or oath	
127 50	227 25	Surcharge - late provisional filing or cover sheet	
139 130	139 130	Non-English specification	
147 2,520	147 2,520	For filing a request for reexamination	
112 920*	112 920*	Requesting publication of SIR prior to Examiner action	
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	
115 110	215 55	Extension for response within first month	
116 410	216 205	Extension for response within second month	
117 930	217 465	Extension for response within third month	
118 1,450	218 725	Extension for response within fourth month	
128 1,970	228 985	Extension for response within fifth month	
119 320	219 160	Notice of Appeal	
120 320	220 160	Filing a brief in support of an appeal	
121 280	221 140	Request for oral hearing	
138 1,510	138 1,510	Petition to institute a public use proceeding	
140 110	240 55	Petition to revive unavoidably abandoned application	
141 1,300	241 650	Petition to revive unintentionally abandoned application	
142 1,300	242 650	Utility issue fee (or reissue)	
143 470	243 235	Design issue fee	
144 630	315 300	Plant issue fee	
122 130	122 130	Petitions to the Commissioner	
126 180	126 180	Submission of Information Disclosure Stmt	
146 750	246 375	Filing a submission after final rejection (37 CFR 1.129(a))	
179 750	249 375	Request for continued examination (RCE) (37 CFR 1.114)	

Other fee (specify) Terminal Disclaimer

Other fee (specify)

SUBTOTAL (3) (\$)

*Reduced by Basic Filing Fee Paid

SUBMITTED BY

COMPLETE (if applicable)

Typed or Printed Name Ervin F. Johnston

Reg. Number 20,190

Signature

Date September 11, 2003

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DATE OF DEPOSIT: September // , 2003

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Ervin F. Johnston

NAME



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